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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/768,662	C	02/02/2004	Kazuhiko Abe	023971-0366 9669	
22428	7590	02/23/2005		EXAMINER	
FOLEY AN	D LARD	NER		KWON,	JOHN
SUITE 500				ART UNIT	PAPER NUMBER
3000 K STRI WASHINGT		20007		3747	TALER NOMBER

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/768,662	ABE ET AL.	M
Office Action Summary	Examiner	Art Unit	
•	John T. Kwon	3747	
The MAILING DATE of this communication a			ddress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state that the mail of the period by the Office later than three months after the mail of the period of the patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thiod will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed rty (30) days will be considered tin NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
· ·	nis action is non-final.	•	
3) Since this application is in condition for allow	vance except for formal mat	ters, prosecution as to t	he merits is
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.ſ	D. 11, 453 O.G. 213.	
Disposition of Claims			` ` ` ` `
4) ☐ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-21 are subject to restriction and/or	rawn from consideration		
Application Papers			
9)☐ The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) a	•	•	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre	•	• • •	, ,
11) The oath or declaration is objected to by the	Examiner, Note the attache	d Office Action or form	P10-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume	ents have been received. ents have been received in A riority documents have beer	Application No	al Stage
* See the attached detailed Office action for a li	st of the certified copies not	t received.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Informal Patent Application (P	TO-152)

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-19, drawn to a fuel properties estimating apparatus with the air-fuel ratio sensitivity correction quantity, classified in class 701, subclass 109.

II. Claims 20 and 21, drawn to a fuel properties estimating apparatus to sense an actual exhaust air-fuel ratio, classified in class 123, subclass 672.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John T. Kwon whose telephone number is (571) 272-4846. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John T. Kwon
Primary Examiner
Art Unit 3747

February 17, 2005